ASME SECTION XI Task Group on In-service Inspection of Spent Fuel Storage and Transportation Containments Kenn Hunter - Exelon Task Group Chairman US NRC 28th Annual Regulatory Information Conference (RIC) March 8, 2016 Exelon.

Highlights Request ASME standards committee to take actions necessary to establish Code rules for in-service inspection of dry storage systems for spent nuclear fuel. Specifically requesting development of the following requirements for metallic pressure-retaining storage caristers and transfer casks: Examination and inspection, including applicable techniques Sampling If requesty protocol demonstration methodology qualification is standards Acceptance standards, including for the wealth of the control of the control

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TASK GROUP ON ISI OF SPENT NUCLEAR FUEL STORAGE AND TRANSPORTATION CONTAINMENT SYSTEMS (BPV XI)

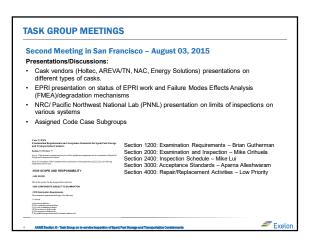
The Task Group is responsible for developing and proposing Code Revisions and Code Cases for Inservice Inspection of spent nuclear fuel storage and transportation containment systems for Section XI, Division 1 of the ASME Boller and Pressure Vessel Code. The Task Group will develop and coordinate changes to the Code that address examination, evaluation of examination results, and repair/replacement activity requirements for metallic portions of the spent nuclear fuel storage and transportation containment systems. The Task Group shall refer potential Code actions to the appropriate Subgroups as needed, and will report to the BPV XI Executive Committee.

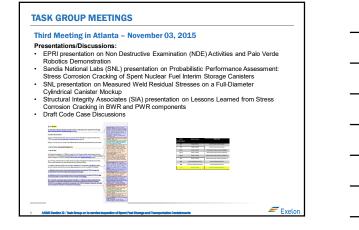
Note: This is a 5 year initiative

ASkill Section 33 - Teak Group on in-earsite inspection of Spent Fast Storage and Transportation Containments

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First Meeting in Colorado Springs - April 27, 2015 Presentations/Discussions: - Agreed to meet quarterly for 4 hours on Monday morning of ASME Week - Chair and Secretary (Aparna Alleshwaram) established - Members established (32 members) - NRC Presentation on need for inspection requirements - Decided to use N770 as a template for this code case - Members - Doug Ammerman - Byan Meyer - Ben Mongamenty - Be





TASK GROUP MEETINGS Fourth Meeting in Las Vegas – February 15, 2016 Presentations/Discussions: Weld Residual Stress Finite Element Analysis of Stainless Steel Canisters and Weld Kesdual Stress I-mite Element Analysis of Stainless Steel Canisters CISCC Flaw Characteristics: Example AMP from NUREG 1927, Rev 1 Coordination of Non-Destructive Examination activities during Fabrication, Pre-service and future inspections Discussion and Comments on Representative Canister Drawing Draft Code Case Discussions Future Discussions/Considerations Continue Sub-Group Meetings Focus on draft code case sections Items for further consideration: Area(s) of concern (weld, Heat Affected Zone (HAZ), surface area) Fabrication vs. Aging indications Deployment of appropriate NDE tools for Visual and Volumetric Examinations Inaccessible areas **LIST OF ACRONYMs** ASME - American Society of Mechanical Engineers NRC - Nuclear Regulatory Commission BPV - Boiler and Pressure Vessel EPRI - Electric Power Research Institute PNNL - Pacific Northwest National Lab SNL - Sandia National Labs BWR - Boiling Water Reactor PWR - Pressurized Water Reactor SIA - Structural Integrity Associates NUREG – US NRC Regulation NDE - Non Destructive Examination HAZ - Heat Affected Zone AMP - Aging Management Programs

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